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EUROPEAN PATENT APPLICATION

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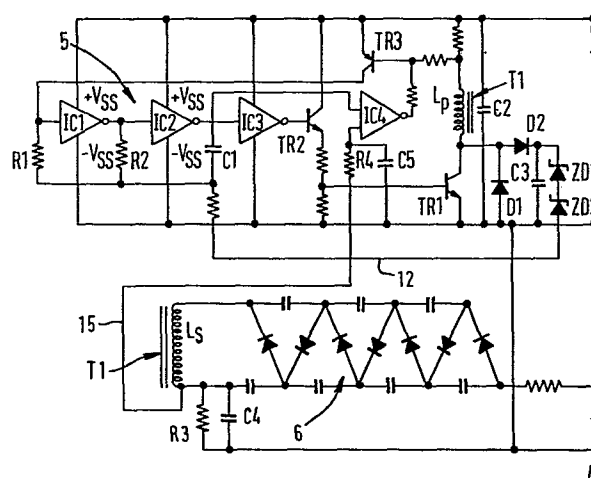
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⑤④ **Improvements in and relating to D.C. to D.C. converters.**

⑤⑦ A d.c. to d.c. converter which produces from a low voltage battery supply a high voltage d.c. output. The converter comprises a step up transformer the primary (L_p) of which receives current pulses under the control of an oscillator (5). For each current pulse, the current builds up steadily and is then abruptly cut off so as to induce a high voltage pulse in a secondary (L_s) of the transformer. The high voltage pulses pass along a voltage multiplier (6) to provide the high voltage d.c. output. Each high voltage pulse has associated with it a low voltage pulse in the primary (L_p) which is used to control the rate of the oscillator (5). The oscillator (5) is also controlled as a function of the peak current in the primary (L_p) by a transistor (TR3), and the oscillator is further controlled to limit its maximum rate when the output current exceeds a given level, by means of a feedback loop (R3, C4, R4, IC4, TR3).





European Patent
Office

EUROPEAN SEARCH REPORT

0027015
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EP 80 30 3406.5

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US - A - 3 564 393 (J.A. WILLIAMSON) * complete document * --	1,6-8	H 02 M 3/335 H 02 P 13/22
	DE - B - 1 933 535 (HUGHES AIRCRAFT) * column 3, lines 43 to 68 * & GB - A - 1 267 721 --	2,3	
	GB - A - 1 472 314 (MEDICAL & ELECTRICAL INSTRUMENTATION CO.) * page 3, lines 8 to 127 * --	4,5	TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
	GB - A - 1 231 753 (TUNZINI-SAMES) * page 2, lines 93 to 116 * ----	4,9	G 05 F 1/64 H 02 M 3/28 H 02 M 7/48 H 02 P 13/22
			CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
X The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
Place of search Berlin		Date of completion of the search 15-10-1981	Examiner GESSNER